

Fig. 1 (prior art)

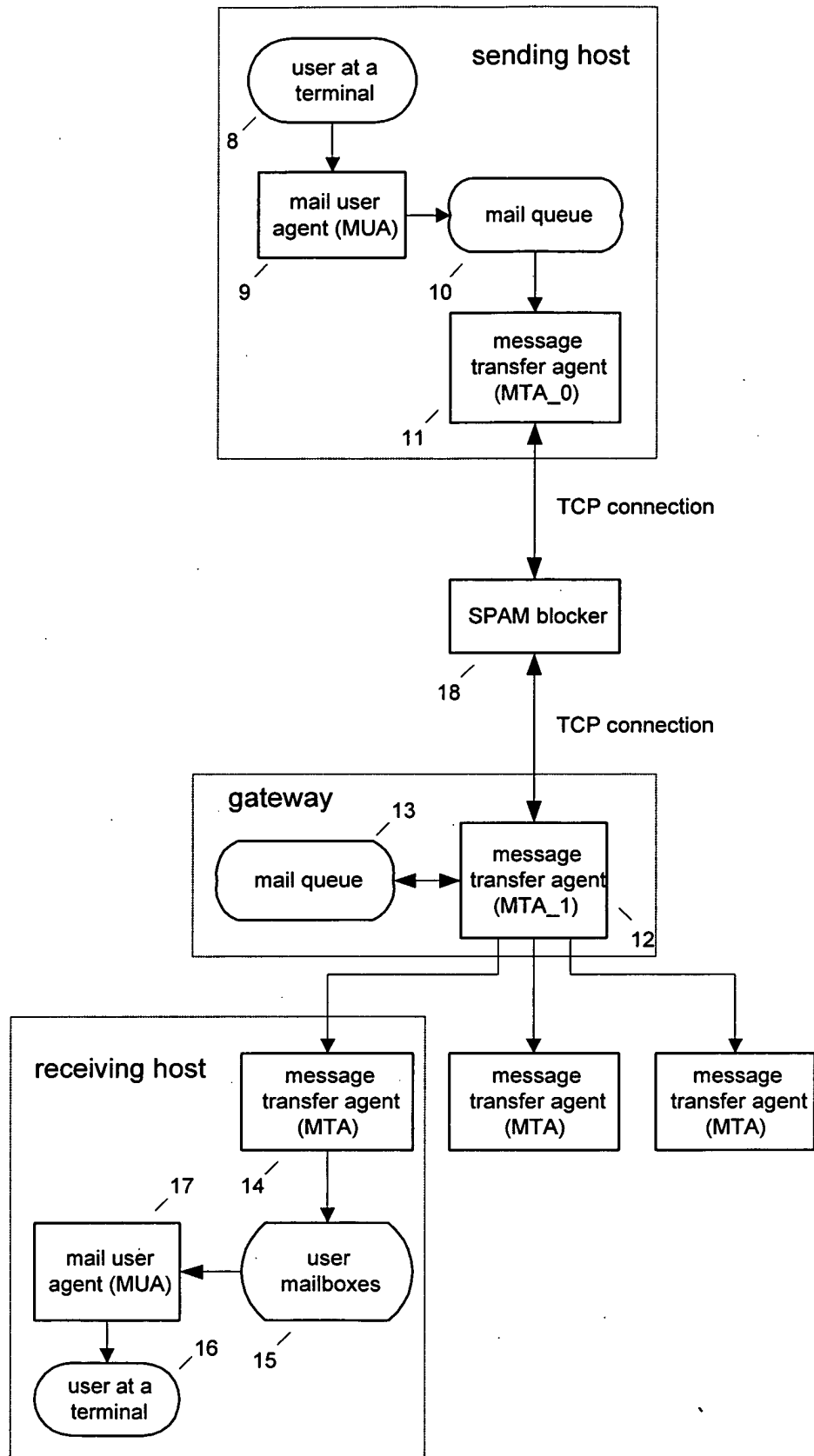


Fig. 2

CONNECTION ESTABLISHMENT

S: 220
F: 421

HELO

S: 250
E: 500, 501, 504, 421

MAIL

S: 250
F: 552, 451, 452
E: 500, 501, 421

RCPT

S: 250, 251
F: 550, 551, 552, 553, 450, 451, 452
E: 500, 501, 503, 421

DATA

I: 354 -> data -> S: 250
F: 552, 554, 451, 452
F: 451, 554
E: 500, 501, 503, 421

RSET

S: 250
E: 500, 501, 504, 421

SEND

S: 250
F: 552, 451, 452
E: 500, 501, 502, 421

SOML

S: 250
F: 552, 451, 452
E: 500, 501, 502, 421

SAML

S: 250
F: 552, 451, 452
E: 500, 501, 502, 421

VRFY

S: 250, 251
F: 550, 551, 553
E: 500, 501, 502, 504, 421

EXPN

S: 250
F: 550
E: 500, 501, 502, 504, 421

HELP

S: 211, 214
E: 500, 501, 502, 504, 421

NOOP

S: 250
E: 500, 421

QUIT

S: 221
E: 500

TURN

S: 250
F: 502
E: 500, 503

Fig. 3 (prior art)

214 Help message

[Information on how to use the receiver or the meaning of a particular non-standard command;
this reply is useful only to the human user]

220 <domain> Service ready

221 <domain> Service closing transmission channel

250 Requested mail action okay, completed

251 User not local; will forward to <forward-path>

354 Start mail input; end with <CRLF>.<CRLF>

421 <domain> Service not available, closing transmission channel

[This may be a reply to any command if the service knows must shut down]

450 Requested mail action not taken: mailbox unavailable [E.g., mailbox busy]

451 Requested action aborted: local error in processing

452 Requested action not taken: insufficient system storage

500 Syntax error, command unrecognized [This may include errors such as command line too long]

501 Syntax error in parameters or arguments

502 Command not implemented

503 Bad sequence of commands

504 Command parameter not implemented

550 Requested action not taken: mailbox unavailable [E.g., mailbox not found, no access]

551 User not local; please try <forward-path>

552 Requested mail action aborted: exceeded storage allocation

553 Requested action not taken: mailbox name not allowed [E.g., mailbox syntax incorrect]

554 Transaction failed

Fig. 4 (prior art)

MTA_0
IP address = IP_0
declared domain = D_0
real domain = DD_0
Mail From = A_0

MTA_1
IP address = IP_1
domain = D_1
RCPT To = A_1

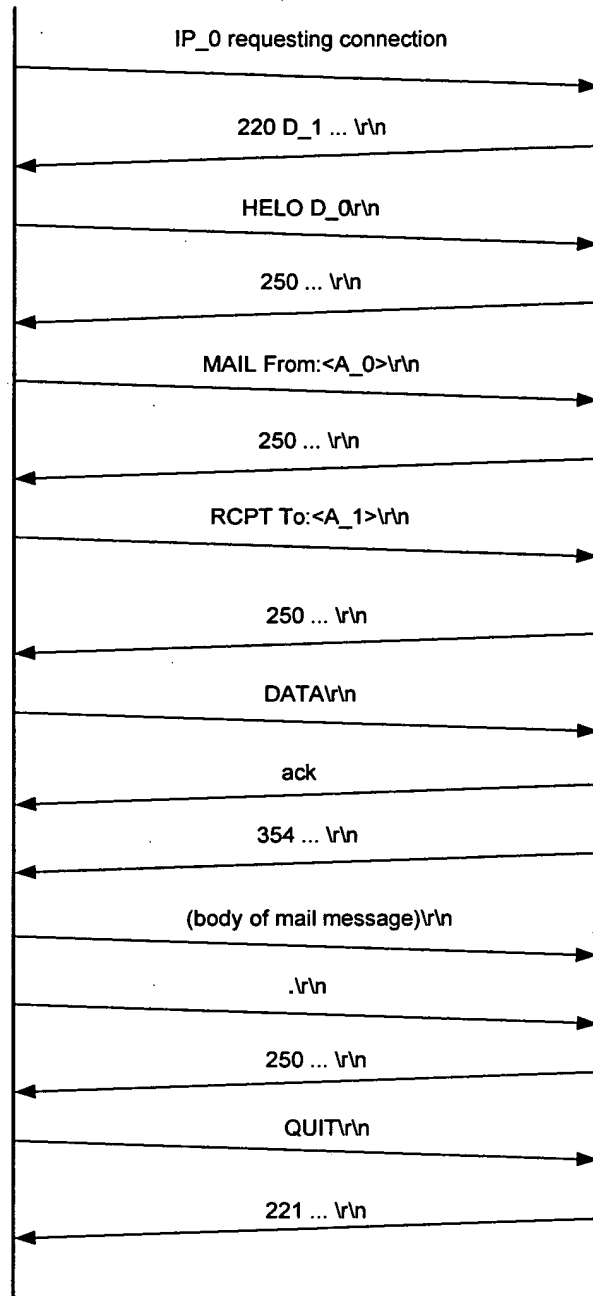


Fig. 5 (prior art)

MTA_0	SPAM Blocker	MTA_1
IP address = IP_0	IP address IP_2	IP address = IP_1
delcared domain = D_0		domain = D_1
real domain = DD_0		RCPT To = A_1
Mail From = A_0		

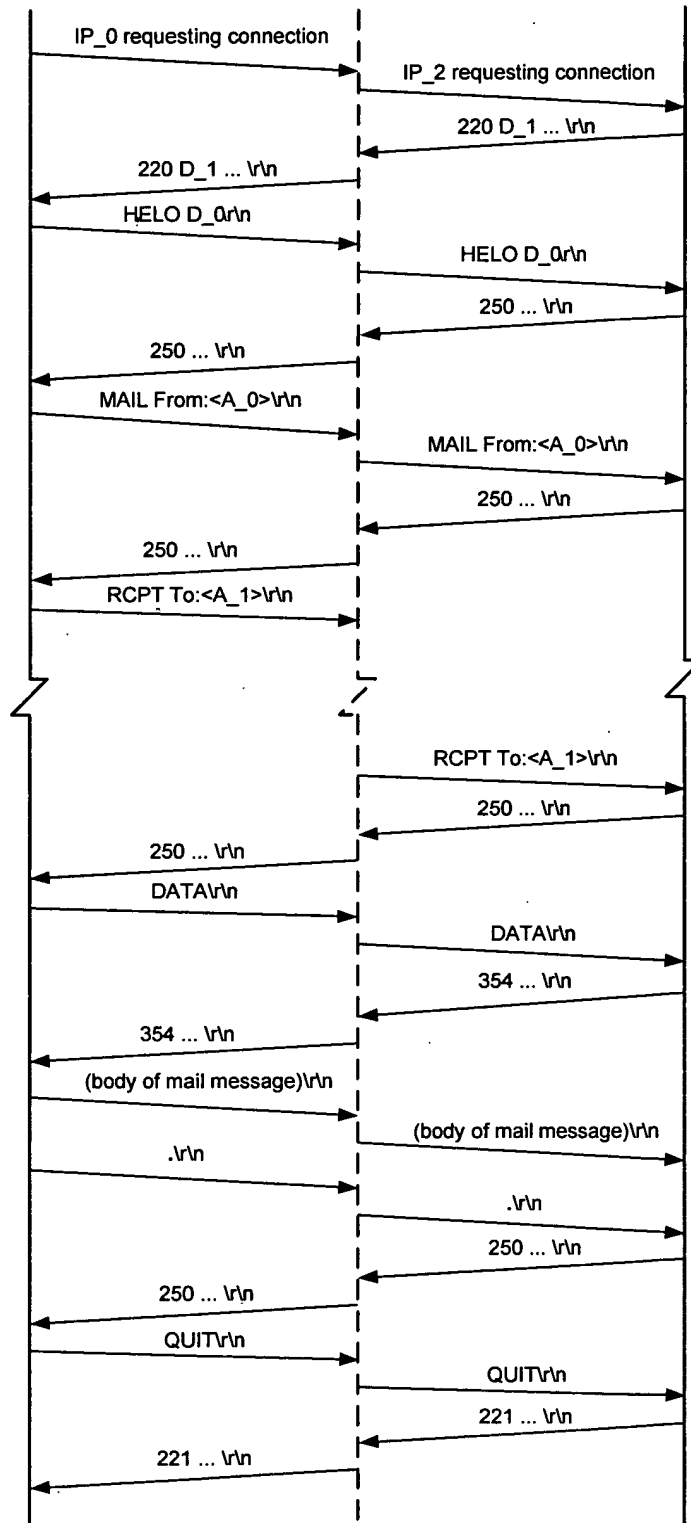


Fig. 6

MTA_0	SPAM Blocker	MTA_1
IP address = IP_0	IP address = IP_2	IP address = IP_1
delcared domain = D_0		domain = D_1
real domain = DD_0		RCPT To = A_1
Mail From = A_0		

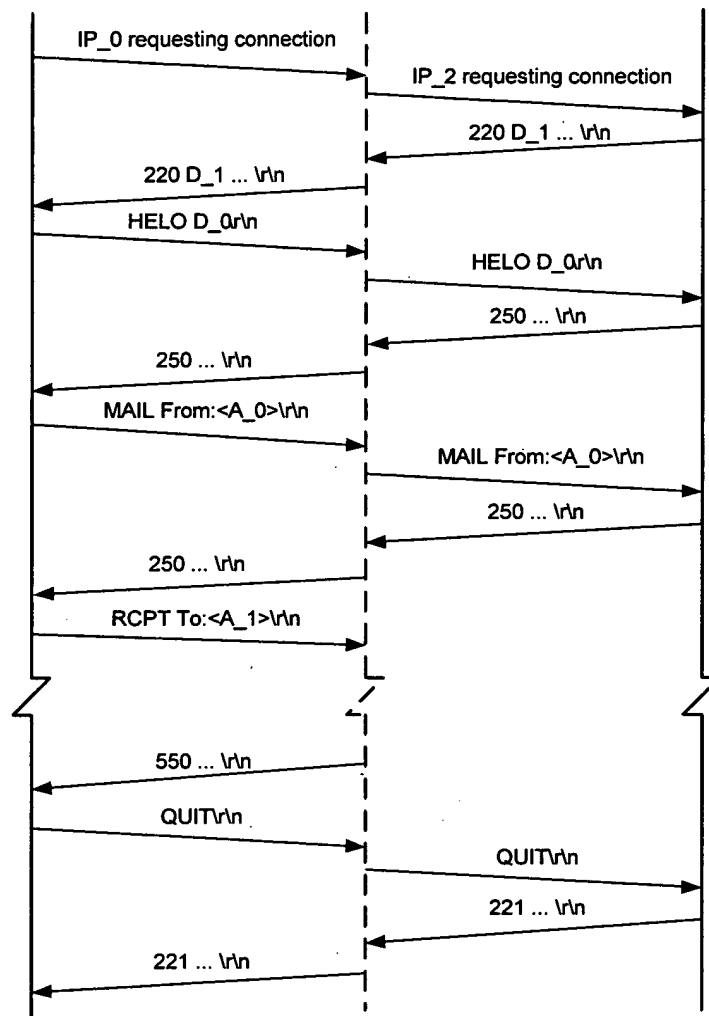


Fig. 7

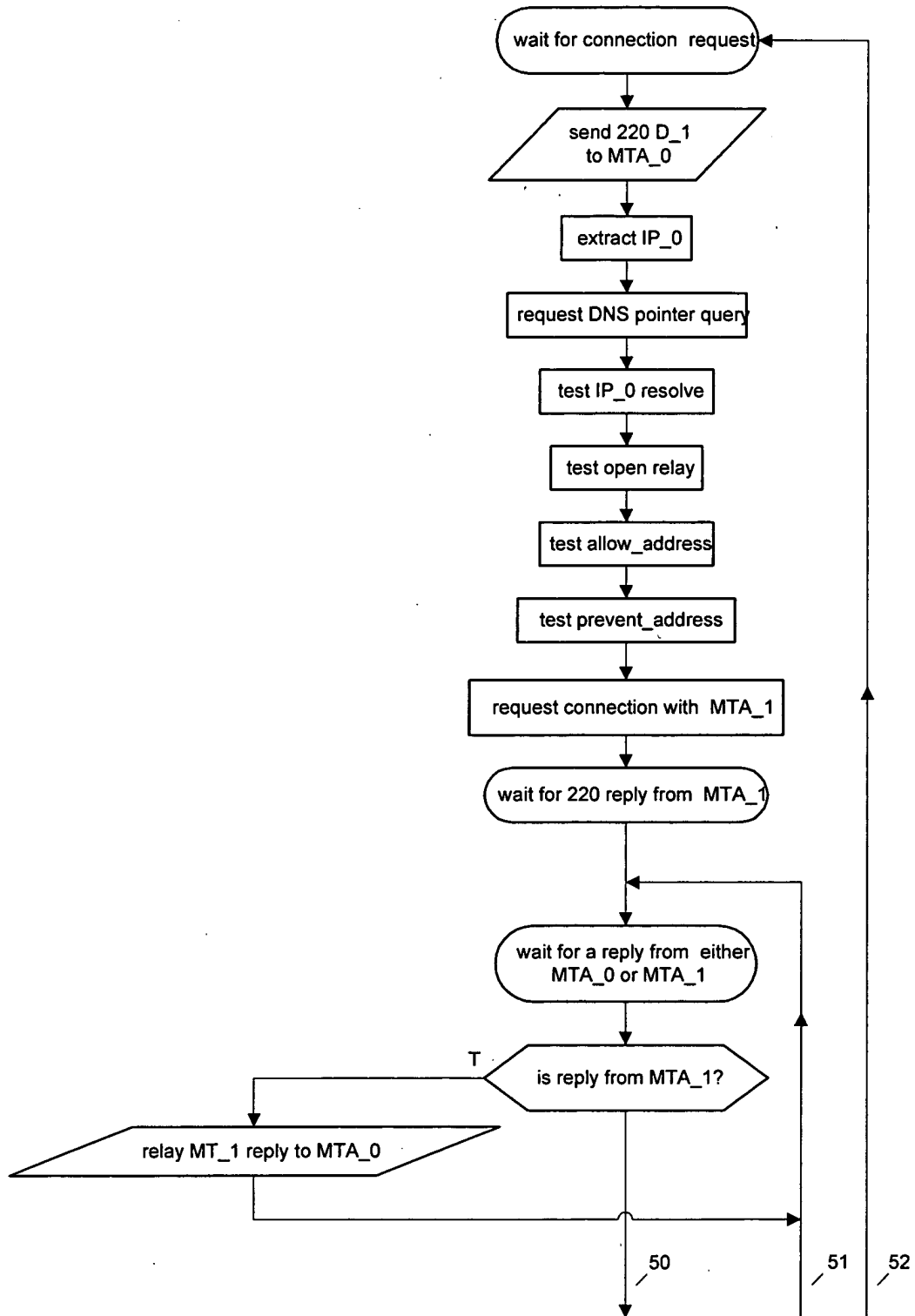


Fig. 8A

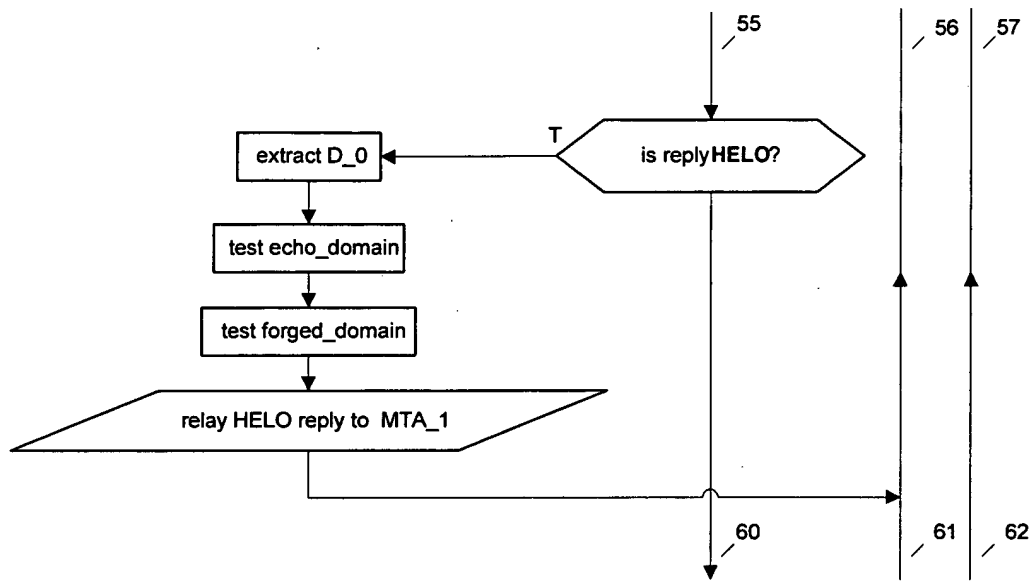


Fig. 8B

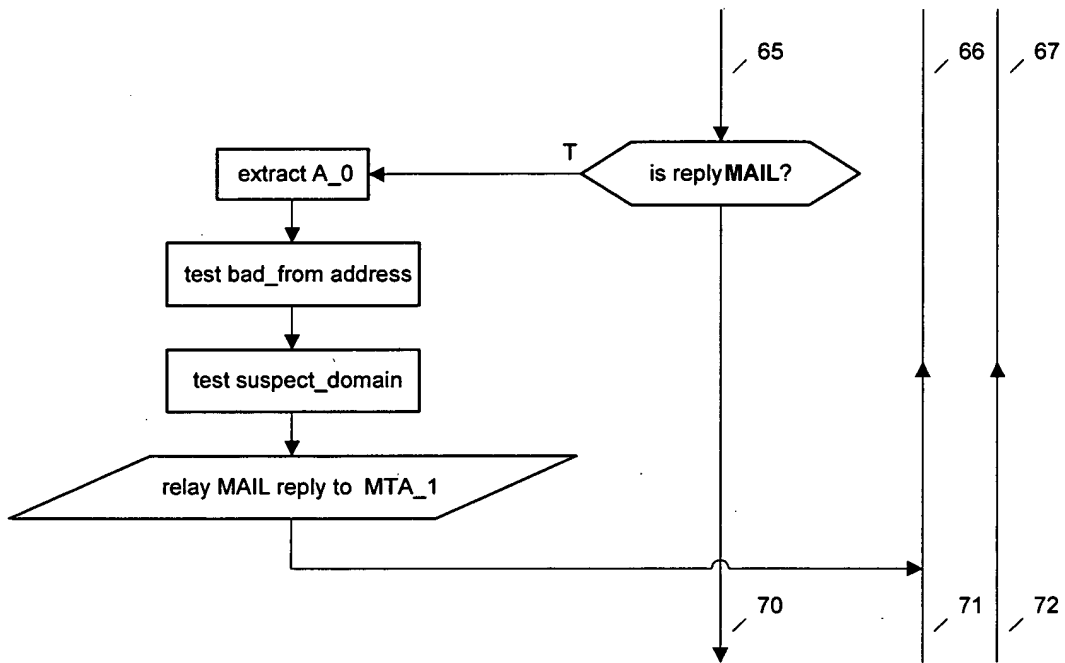


Fig. 8C

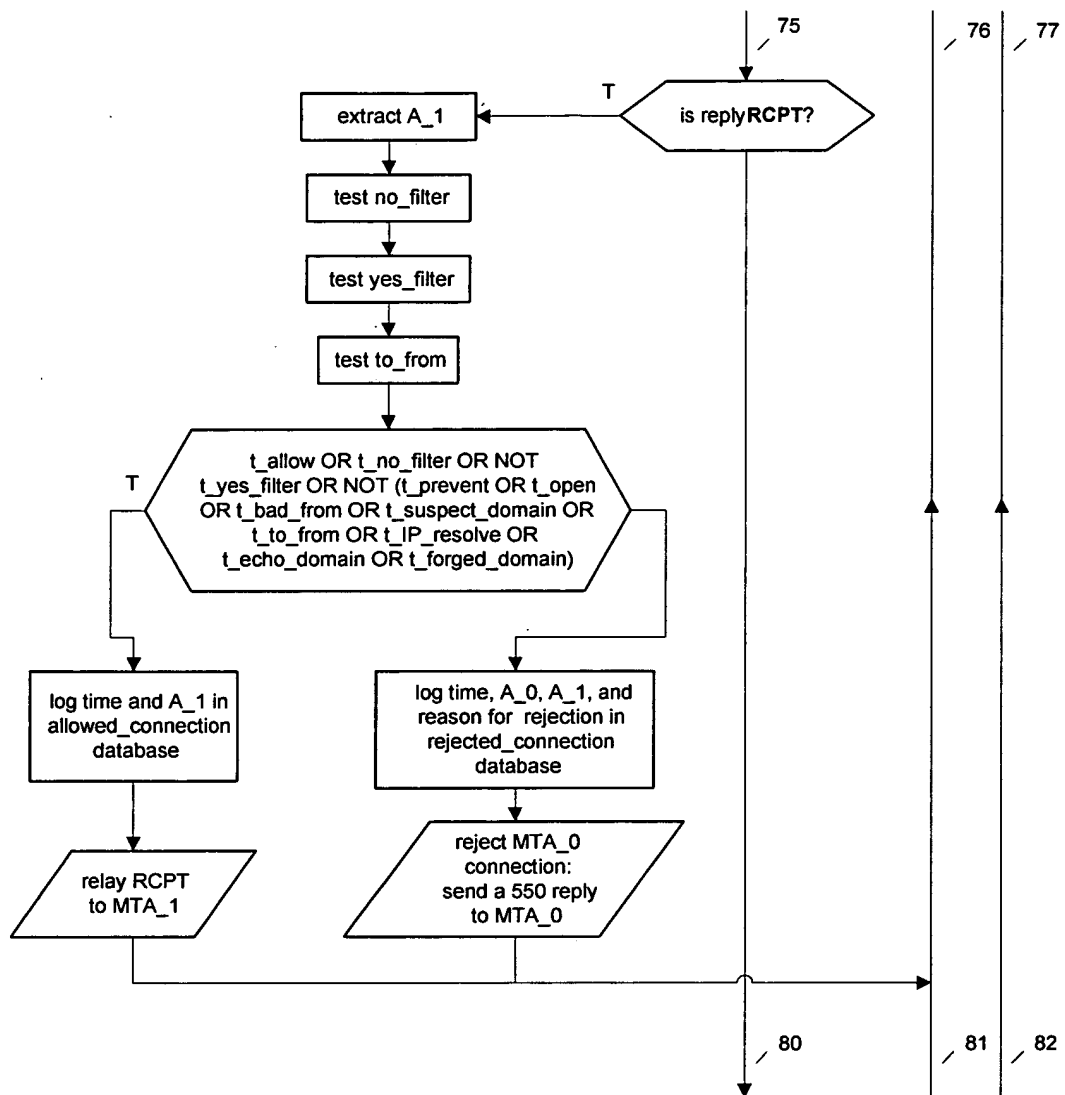


Fig. 8D

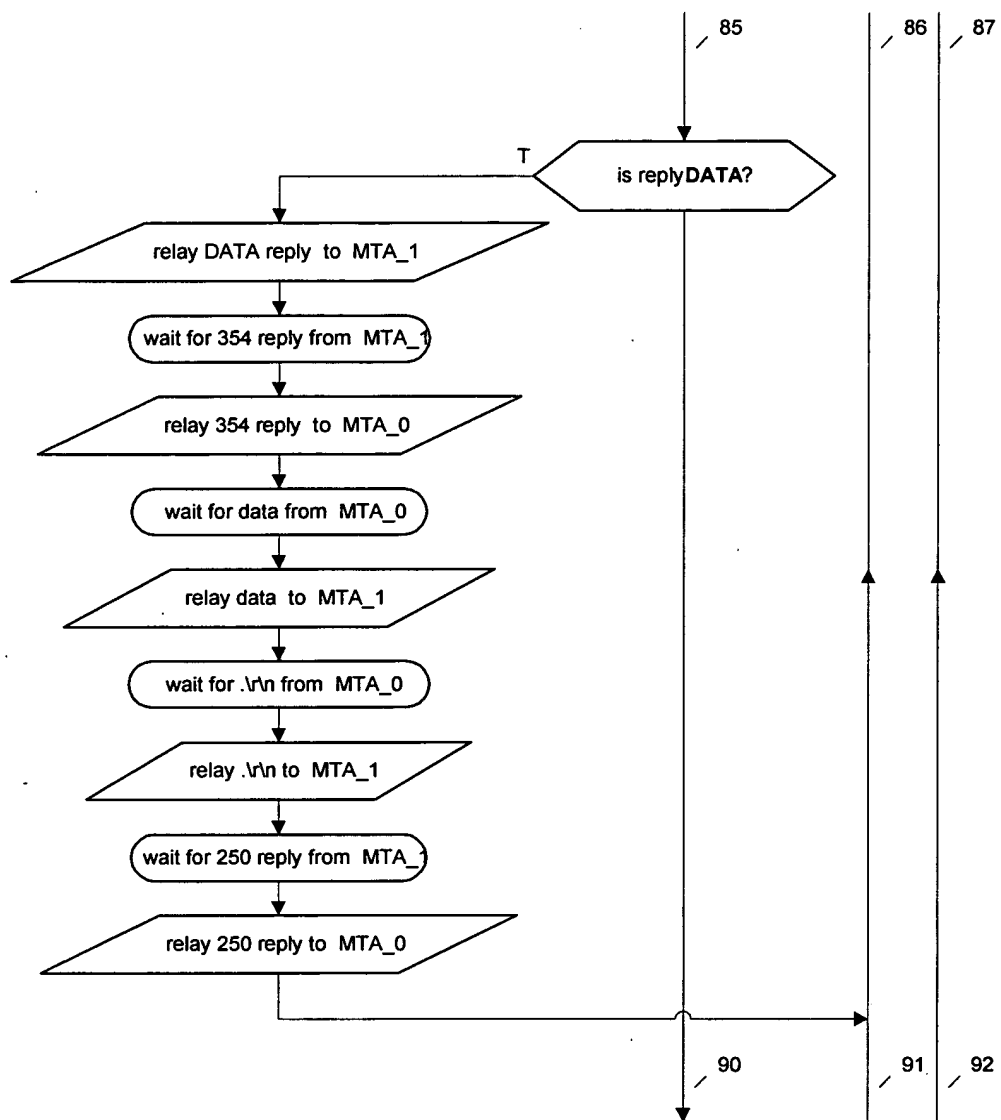


Fig. 8E

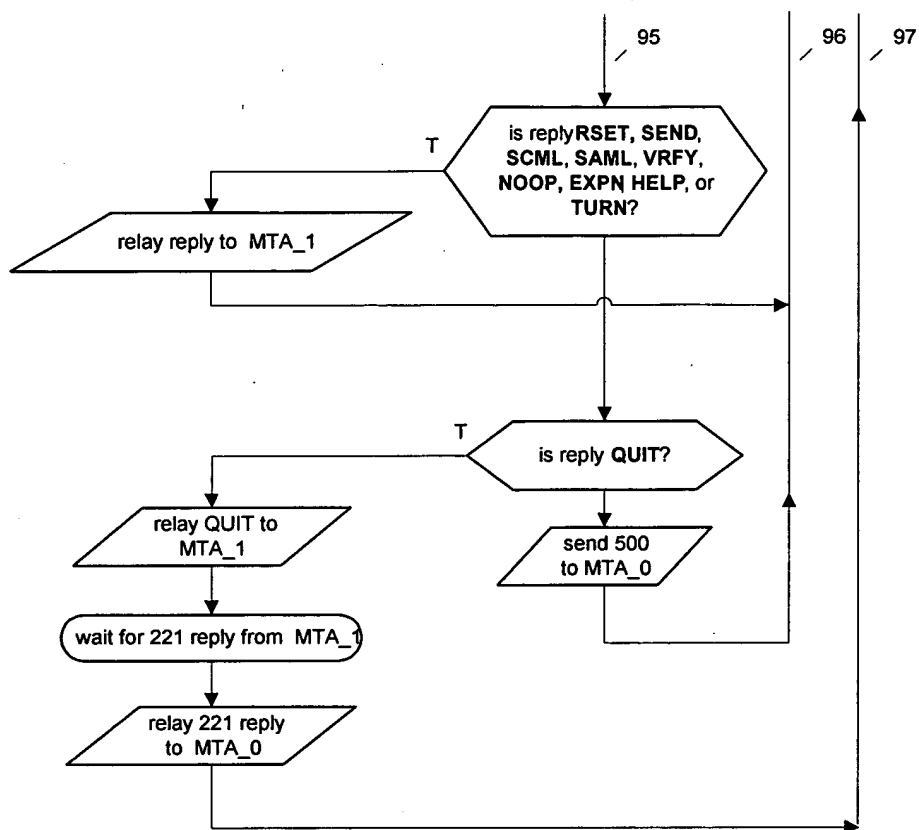


Fig. 8F

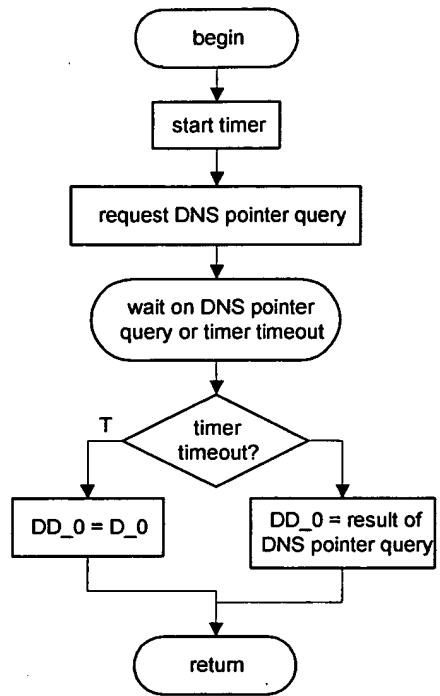


Fig. 9

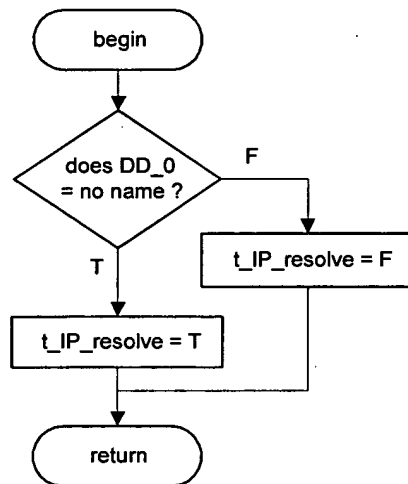


Fig. 10

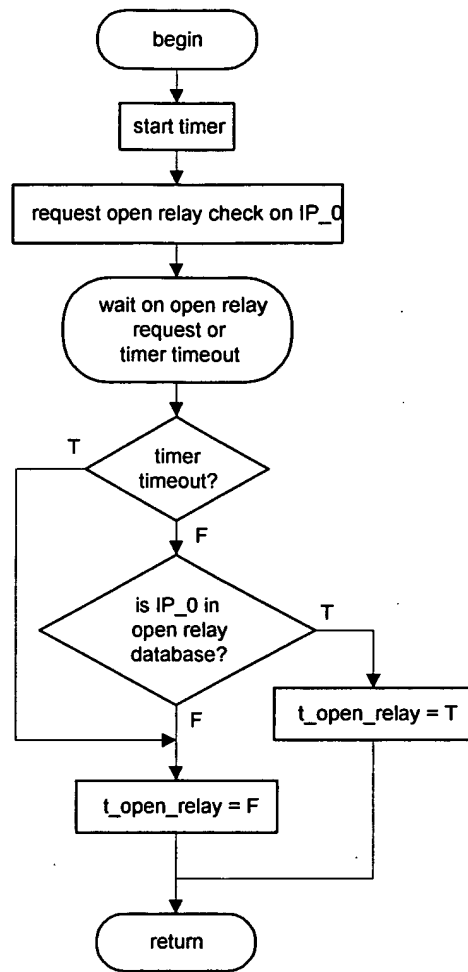


Fig. 11

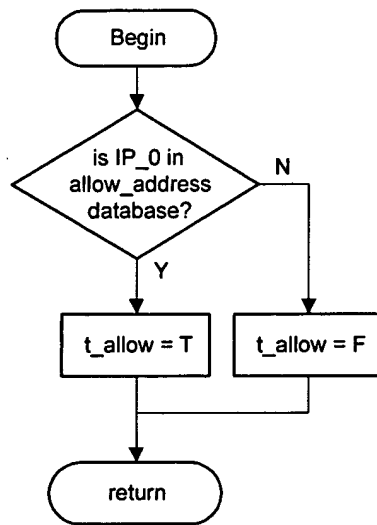


Fig. 12A

allow IP address

Fig.12B

66.75.160.12
65.54.254.145
65.54.232.71

65.54.232.7
64.4.56.135
64.4.55.71

64.4.55.7
64.4.55.135
64.4.50.71

64.4.50.7
64.4.49.199
64.4.49.135

Fig. 12C

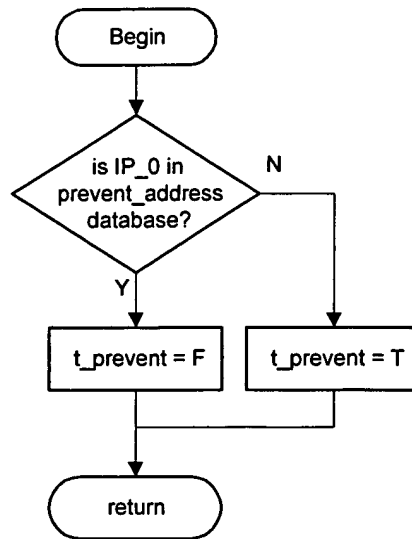


Fig. 13A

low prevent address	high prevent IP address

Fig. 13B

4.19.93.159	12.237.79.6	64.3.236.18	66.75.*.*
4.43.46.14	61.16.2.72	65.171.144.13	128.121.16.241
4.43.46.15	63.162.162.157	65.174.29.52	128.121.16.248
4.43.46.17	63.163.139.83	65.211.149.230	129.71.235.57
12.101.140.178	64.0.241.210	65.88.90.10	131.161.40.61
12.101.199.26	64.14.127.28	66.115.47.112	139.130.177.67
12.101.61.98	64.159.91.198	66.115.47.144	146.243.16.156
12.109.16.67	64.251.16.152	66.123.51.203	148.235.134.146
12.129.205.65	64.251.16.153	66.47.187.38	148.235.89.20
12.129.205.84	64.251.16.154	66.74.*.*	

Fig. 13C

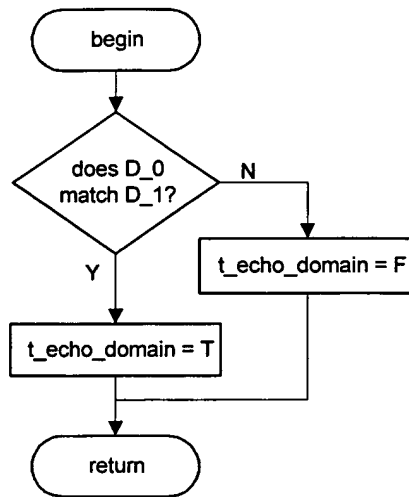


Fig. 14

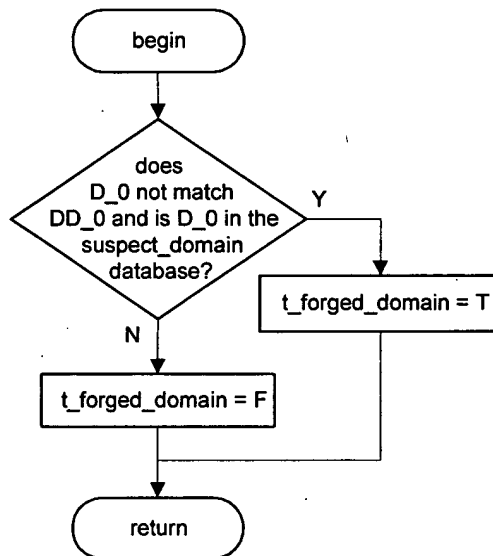


Fig. 15

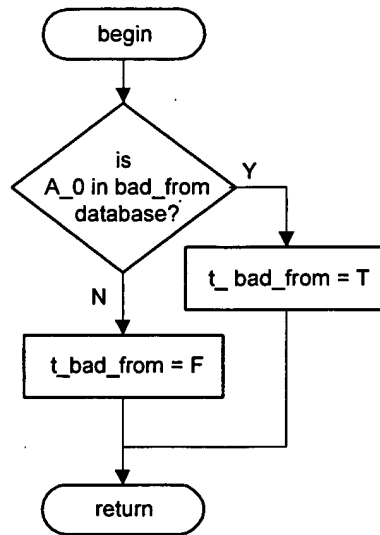


Fig. 16A

bad from address

Fig. 16B

@.cl

*@thejanusgroup.com

*@*nymphos*

*@*ramshack.net

*@*emailsvc.net

*@*hostingcheck.com

*@*linksynergy.com

@.nl

*@netpaloffers.com

@.no

*@*porn*

*@*medianetgroup.net

*@*myrealbox.com

@.br

*@*agoramail.net

ipas@*

*@yourmailsource.com

fuck*.*

fuck.*

@.in

Fig. 16C

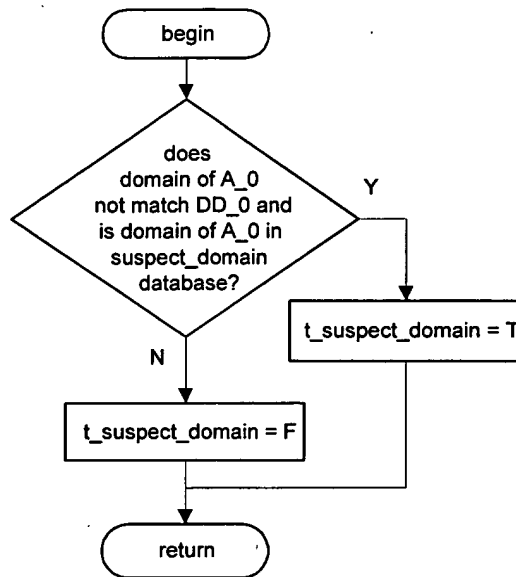


Fig. 17A

suspect domain address

Fig. 17B

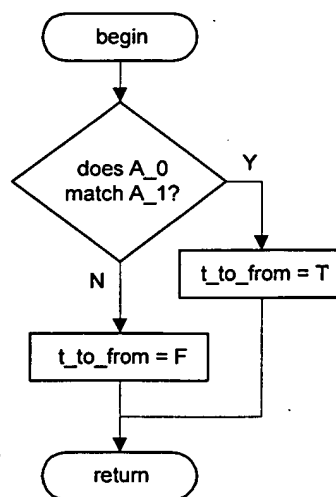


Fig. 18

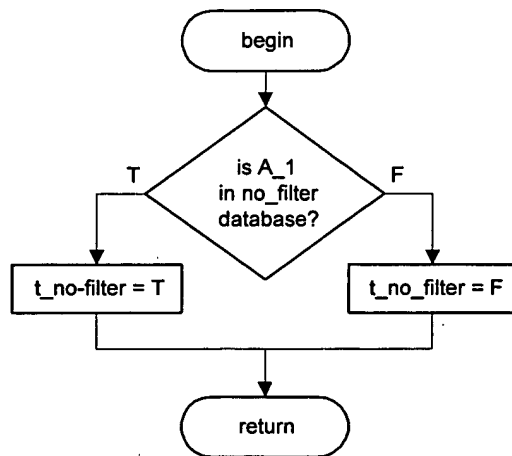


Fig. 19A

no filter addresses (A_1)

Fig. 19B

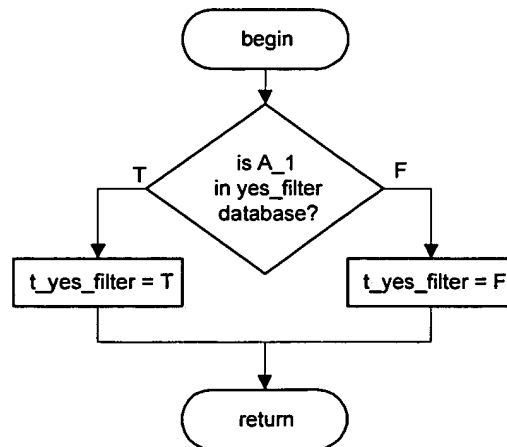


Fig. 20A

yes_filter addresses (A_1)

Fig. 20B

time	"To" address (A_1)

Fig. 21

time	"To" address (A_1)	"From" address (A_0)	reason for rejection

Fig. 22